Description

The Lightweight Counter-Mortar Radar AN/TPQ-48(V) (LCMR) system, developed in partnership between the US and Syracuse Research Army Corporation (SRC) and manufactured by SRCTec, Inc. (SRCTec), provides critical Counter-fire Target Acquisition (CTA) capabilities as well as force protection for personnel and facilities throughout all theaters of operation involved in the Global War on Terrorism. Through integration into the U.S. Army's command and control systems, the LCMR enables the warfighter to initiate timely action to neutralize identified threats and warn against incoming indirect fire attacks. The LCMR was designed to automatically locate indirect fire weapons and to be sufficiently lightweight to support insertion by Airborne troops. LCMR is specified to detect and track hostile fires at ranges out to effective range of most mortar weapons and locate the firing weapon with a target location error sufficient to neutralize the shooter with either Combat Air Support or counterfire.



PM Radars

SFAE-IEW&S-NV-R Bldg.1201 East, 3rd Floor Fort Monmouth, New Jersey 07703







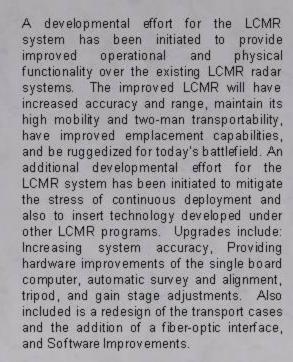
Characteristics

The LCMR detects and locates mortar positions automatically over 360° by detecting and tracking the mortar shell and then backtracking to the weapon position. When a mortar is detected, the LCMR sends a warning message indicating a round is incoming. After sufficient data is collected to enable an accurate weapon location, the weapons location is transmitted. LCMR successfully demonstrates the concept of a lightweight, man portable radar weighing approximately 120 pounds and is transportable by a crew of two, and is digitally connected to fire support and command control networks. Its light weight modular design speeds employment and displacement providing the warfighter with enhanced target location and projectile classification accuracy capability. The LCMR mitigates close combat radar coverage gaps and compliments the current AN/TPQ-36 and 37 Firefinder Radars; fully supporting Modular and Fires Brigades operations.



Special Features

The LCMR provides continuous 360° coverage at very high scan rates and with high reliability. The LCMR is very compact and lightweight. The radar can be battery powered and requires less than 300 watts of prime power. It can run off of vehicle power and is shipped with an AC adapter to allow use of generator or commercial power. The system is also adaptable through software and firmware.



Capability/Improvements

